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| Form PTO 1449 US DEPARTMENT OF COMMERCE             | Atty Docket No. 789_071  |       |  |  |  |  |  |
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| PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE | Applicant Shuhei ISHIKAWA, Tsutomu MITSUI, Ken SUZUKI, Nobuaki NAKAYAMA, Hiroyuki TAKEUCHI and Seiji YASUI |       |  |  |  |  |  |
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### **U.S. PATENT DOCUMENTS**

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| A1 | AA   | 11-67991        | 3/9/1999   | JР      |       |              |               |          |
|    | AB   | 4-329845        | 11/18/1992 | JP      |       |              |               |          |
| 2  | AC - | 0 504 532 A1    | 9/23/1992  | EP      |       |              |               |          |
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# OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages Etc.)

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| Sheet       | 11                  | of               | 1           | Attorney Docket No. 789_071 |                   |  |  |  |  |

## **U.S. PATENT DOCUMENTS**

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## U.S. COPENDING APPLICATIONS

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| 37               | BB 10/279,959 |                                 | 10/24/2002                  | Ishikawa et al. | 789_100        |       |              |
|                  |               |                                 |                             |                 |                |       |              |

|  | FOREIGN PATENT DOCUMENTS |                 |      |              |       |              |             |          |  |  |  |  |  |
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| OTHER DOCUMENTS  (Including Author, Title, Date, Pertinent Pages etc.) |                          |                 |      |              |       |              |             |          |  |  |  |  |  |
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|                  | AY       | 8-3725      | 58  |               |                  | 2/6/          | 1996       | Ja     | pan       |              |              |              |           |              |  |
|                  | AZ       | 0 673       | 900 A2  |               |                  | 9/27/         | 1995       | Eu     | rope      |              |              |              |           |              |  |
| Ø                | ВА       | 11-140      | )559 A  |               |                  | 5/25/         | 1999       | Ja     | pan       |              |              | $\sqrt{}$    | ~         | ~            |  |
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